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Address or Residence	Tochigi Prefecture Tochigi-City, Omiyamachi 2584
Name or Title	Yuko Kuzuu
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Name of the invention	Nail clipper for pets
Number of application items	3
Applicant	Masayuki Kuzuu

This patent application is approved as there is no reason for denial.

I hereby certify that there is no disparity between the above document and the record on the patent registration ledger.
Saburo Morioka
Ministry of Economy, Trade and Industry
Certification date: August 19, 2003

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To	Commissioner, Japan Patent Office Patent office examiner Ms. Kayoko Yoshida
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Submitted by	
ID Number	500298244
Address or Residence	Tochigi Prefecture Tochigi-City, Omiyamachi 2584
Name or Title	Masayuki Kuzuu
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Revision application 1	
Revision document title	Detailed statement
Revision item	Application item 1
Revision method	Revision
Revision content	

[Scope of patent application]

[Application item 1] This is a nail clipper for pets with the following distinctive features. It has blade pieces (A) created by splitting a circular or an elliptical ring having some thickness. Both ends of the blade pieces (A) made with a circular or an elliptical ring having some thickness is cut diagonally from the circular or elliptical ring's surface. The arm piece (C) is attached facing outward near one end of curved blade piece (A) made by splitting a ring with some thickness, and the arm piece (C) is attached parallel to the ring surface of the curved blade piece (A). The arm piece (D) is attached facing outward near the other end of the curved blade piece (A) made by splitting a ring. The arm piece (D) is attached parallel on the ring surface of the curved blade piece (A) and placed on the curved blade piece (A). The arm piece (C) and the arm piece (D) are attached to the longer curvature on the curved blade piece (A), and the rim of the shorter curvature of the curved blade piece (A) is made into blade (B). Piece (E) with pin hole (F) is attached to the arm piece (C), and another piece (E) with pin hole (F) is attached to the arm piece (D). The pin hole (F) on the piece (E) attached to the arm piece (C) is attached parallel to the ring surface of the blade piece (A) facing the curved blade piece (A). The pin hole (F) on the piece (E) attached to the other arm piece (D) is attached parallel to the ring surface of the blade piece (A) facing the curved blade piece (A). There is a pin hole (G) parallel to the ring surface of the blade piece (A) at the center of the curved blade piece (A). The two curved blade pieces (A) are attached at the diagonally cut ends by adjusting the length of the arm piece (C) and the arm piece (D). The cutting ends of the two blade pieces (A) are located above the straight line connecting the pin holes (G) on the two

connected blade pieces (A). Pin (H) is piercing through the pin holes (F) on both sides of the connected curved blade pieces (A). The two curved blade pieces (A) are able to repeat the opening and retracting circular movement with the pin (H) as the rotation center. The two circular blade pieces are assembled in position facing one another. The pin (J) is piercing through the pin hole (G) on both sides of the connected curved blade pieces (A) and the pin hole on the support piece (K). The support piece (K) is attached to both sides of the curved blade piece (A) with the pin (J). The two support pieces (K) attached to the sides of the curved blade piece (A) is attached to the board spring (X). The two board springs (X), with the support pieces (K) attached, are connected and secured to the curved blade pieces (A) from the top and bottom. The operating levers (Y) are attached to the exterior surface of the board spring (X). The two board springs (X) and the operating levers (Y) are attached with the ring (Z). The attachment is made so the pressing of the operating levers (Y) results in the two board springs coming closer to one another. The edges of the blades (B) on the blade pieces (A) meet completely in a straight line to cut the pet's nail placed between the blades (B) on the blade pieces (A).

[Application revision 2]

[Revision document title] Detailed statement

[Revision item] 0002

[Revision method] Revision

[Revision content]

[0002]

[Traditional technology]

When the nails are cut with traditional nail clipper for pets, the nail edges are cut at straight edge, resulting in sharper nails. As advanced technology literature, patent bulletin 56-75038 and 4-68662 are available.

(21,000 yen)

Document title	Patent Application	
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Inventor		
Address or Residence	Tochigi Prefecture Tochigi-City, Omiyamachi 2584	
Name	Masayuki Kuzuu	
Patent Applicant		
ID Number	500298244	
Postal Code	328-0011	
Address or Residence	Tochigi Prefecture Tochigi-City, Omiyamachi 2584	
Name or Title	Masayuki Kuzuu	
Table of Contents		
Document Title	Detailed Statement	1
Document Title	Diagram	1
Document Title	Summary	1

[Document title] Detailed statement
[Title of the invention] Nail clipper for pets
[Scope of patent application]

[Application item 1] This is a nail clipper for pets with the following distinctive features. It has blade pieces (A) created by splitting a circular or an elliptical ring having some thickness. Both ends of the blade pieces (A) made with a circular or an elliptical ring having some thickness is cut diagonally from the circular or elliptical ring's surface. The arm piece (C) is attached facing outward near one end of curved blade piece (A) made by splitting a ring with some thickness, and the arm piece (C) is attached parallel to the ring surface of the curved blade piece (A). The arm piece (D) is attached facing outward near the other end of the curved blade piece (A) made by splitting a ring. The arm piece (D) is attached parallel on the ring surface of the curved blade piece (A) and placed on the curved blade piece (A). The arm piece (C) and the arm piece (D) are attached to the longer curvature on the curved blade piece (A), and the rim of the shorter curvature of the curved blade piece (A) is made into blade (B) or has blade (B) attached. Piece (E) with pin hole (F) is attached to the arm piece (C), and another piece (E) with pin hole (F) is attached to the arm piece (D). The pin hole (F) on the piece (E) attached to the arm piece (C) is attached parallel to the ring surface of the blade piece (A) facing the curved blade piece (A). The pin hole (F) on the piece (E) attached to the other arm piece (D) is attached parallel to the ring surface of the blade piece (A) facing the curved blade piece (A). There is a pin hole (G) parallel to the ring surface of the blade piece (A) at the center of the curved blade piece (A). The two curved blade pieces (A) are attached at the diagonally cut ends by adjusting the length of the arm piece (C) and the arm piece (D). The cutting ends of the two blade pieces (A) are located above the straight line connecting the pin holes (G) on the two connected blade pieces (A). The pin (H) is piercing through the pin holes (F) on both sides of the connected curved blade pieces (A). The two curved blade pieces (A) are able to repeat the opening and retracting circular movement with the pin (H) as the rotation center. The two circular blade pieces are assembled in a position facing one another. The pin (J) is piercing through the pin hole (G) on both sides of the connected curved blade pieces (A) and the pin hole on the support piece (K). The support piece (K) is attached to both sides of the curved blade piece (A) with the pin (J). The two support pieces (K) attached to the sides of the curved blade piece (A) is attached to the board spring (X). The two board springs (X), with the support pieces (K) attached, are connected and secured to the curved blade pieces (A) from the top and

bottom. The operating levers (Y) are attached to the exterior surface of the board spring (X). The two board springs (X) and the operating levers (Y) are attached with the ring (Z). The attachment is made so the pressing of the operating levers (Y) results in the two board springs coming closer to one another. The edges of the blades (B) on the blade pieces (A) meet completely in a straight line to cut the pet's nail placed between the blades (B) on the blade pieces (A).

[Application item 2] This is a nail clipper for pets with the following distinctive features. It has blade pieces (A) created by splitting a circular or elliptical ring. Arm pieces (C) and (C) are attached to the blade piece (A). It has blades (B) on the circular rim of the blade pieces (A). The arm pieces (C) and (D) are attached to the piece (E) with pin hole (F), and the two circular blade pieces (A) are assembled by facing one another. Pins (H) are attached on the two circular blade pieces (A), and the piece (E) is attached to the sides of the two circular blade pieces (A) with pins (H) piercing through the pin holes (F). The circular blade pieces (A) repeats the opening and retracting movement in circular motion with the pin (H) at the rotation center, cutting the pet's nail placed between the blades (B) on the blade pieces (A) as a result.

[Application item 3] This is a nail clipper for pets with the following distinctive features. It has blade pieces (A) created by splitting a circular or elliptical ring. It has blades (B) on the circular rim of the blade pieces (A). The two circular blade pieces (A) are assembled by facing one another. Pins (H) are attached on the two circular blade pieces (A). The circular blade pieces (A) repeats the opening and retracting movement in circular motion with the pin (H) at the rotation center, cutting the pet's nail placed between the blades (B) on the blade pieces (A) as a result.

[Detailed description of the invention]

[0001]

[Technological field the invention belongs in]

Technology of nail clipper for pets such as dogs and cats

[0002]

[Traditional technology]

When the nails are cut with traditional nail clipper for pets, the nail edges are cut at straight edge, resulting in sharper nails.

[0003]

[The issue the invention attempts to solve]

It produces smooth nail edges in semi-circular shape in single cutting action.

[0004]

[Method used to solve the issue]

This is a nail clipper for pets with the following distinctive features. It has blade pieces created by splitting a circular or elliptical ring. It has blades on the circular rim of the blade pieces. The two circular blade pieces are assembled by facing one another. Pins are attached on the two circular blade pieces. The circular blade pieces repeats the opening and retracting movement in circular motion with the pin at the rotation center, cutting the pet's nail placed between the blades on the blade pieces as a result.

[0005]

[Application of the invention]

This explanation uses the diagrams and is based on the application example. As seen on diagram 1, it has blade pieces (A) created by splitting a circular or an elliptical ring having some thickness. Both ends of the blade pieces (A) made with a circular or an elliptical ring having some thickness is cut diagonally from the circular or elliptical ring's surface. The arm piece (C) is attached facing outward near one end of curved blade piece (A) made by splitting a ring with some thickness, and the arm piece (C) is attached parallel to the ring surface of the curved blade piece (A). The arm piece (D) is attached facing outward near the other end of the curved blade piece (A) made by splitting a ring. The arm piece (D) is attached parallel on the ring surface of the curved blade piece (A) and placed on the curved blade piece (A). The arm piece (C) and the arm piece (D) are attached to the longer (upper) curvature on the curved blade piece (A), and the rim of the shorter (lower) curvature of the curved blade piece (A) is made into blade (B) or has blade (B) attached. Piece (E) with pin hole (F) is attached to the arm piece (C), and another piece (E) with pin hole (F) is attached to the arm piece (D). The pin hole (F) on the piece (E) attached to the arm piece (C) is attached parallel to the ring surface of the blade piece (A) facing the curved blade piece (A). The pin hole (F) on the piece (E) attached to the other arm piece (D) is attached parallel to the ring surface of the blade piece (A) facing the curved blade piece (A). The arm piece (C) is longer than the arm piece (D). There is a pin hole (G) parallel to the ring surface of the blade piece (A) at the center of the curved blade piece (A).

[0006]

As seen on diagram 2, the two curved blade pieces (A) are attached at the diagonally cut ends by adjusting the length of the arm piece (C) and the arm piece (D). The cutting ends of the two blade pieces (A) are located above the straight line connecting the pin holes (G) on the two connected blade pieces (A).

[0007]

As seen on diagrams 3 and 4, the pin (H) is piercing through the pin holes (F) on both sides of the connected curved blade pieces (A). The two curved blade pieces (A) are able to repeat the opening and retracting circular movement with the pin (H) as the rotation center. The two circular blade pieces are assembled in position facing one another. The pin (J) is piercing through the pin hole (G) on both sides of the connected curved blade pieces (A) and the pin hole on the support piece (K). The support piece (K) is attached to both sides of the curved blade piece (A) with the pin (J). The two support pieces (K) attached to the sides of the curved blade piece (A) is attached to the board spring (X). The two board springs (X), with the support pieces (K) attached, are connected and secured to the curved blade pieces (A) from the top and bottom. The operating levers (Y) are attached to the exterior surface of the board spring (X). The two board springs (X) and the operating levers (Y) are attached with the ring (Z). The attachment is made so the pressing of the operating levers (Y) results in the two board springs coming closer to one another. The edges of the blades (B) on the blade pieces (A) meet completely in a straight line to cut the pet's nail placed between the blades (B) on the blade pieces (A).

[0008]

[Application example]

As seen on diagram 1, this is a nail clipper for pets with all of its parts made out of metal. It has blade pieces (A) created by splitting an elliptical ring with diameters of 20mm and 12mm and thickness of 4mm. Both ends of the blade pieces (A) made with an elliptical ring having some thickness is cut diagonally at 75 degrees from the elliptical ring's surface. The arm piece (C), 4mm long and 1mm thick, is attached facing outward near one end of curved blade piece (A) made by splitting a ring with some thickness, and the arm piece (C) is attached parallel to the ring surface of the curved blade piece (A). The arm piece (D), 3mm long and 1mm thick, is attached facing outward near the other end of the curved blade piece (A) made by splitting a ring.

The arm piece (D) is attached parallel on the ring surface of the curved blade piece (A) and placed on the curved blade piece (A). The arm piece (C) and the arm piece (D) are attached to the longer (upper) curvature on the curved blade piece (A), and the rim of the shorter (lower) curvature of the curved blade piece (A) is made into blade (B) or has blade (B) attached. 1mm thick piece (E) with 1mm pin hole (F) is attached to the arm piece (C), and another 1mm thick piece (E) with 1mm pin hole (F) is attached to the arm piece (D). The pin hole (F) on the piece (E) attached to the arm piece (C) is attached parallel to the ring surface of the blade piece (A) facing the curved blade piece (A). The pin hole (F) on the piece (E) attached to the other arm piece (D) is attached parallel to the ring surface of the blade piece (A) facing the curved blade piece (A). There is a 1mm diameter pin hole (G) parallel to the ring surface of the blade piece (A) at the center of the curved blade piece (A).

[0009]

As seen on the diagram 2, the two curved blade pieces (A) are attached at the ends cut diagonally at 75 degrees. The cutting ends of the two blade pieces (A) connected are located 1mm above the straight line connecting the pin holes (G) on the two connected blade pieces (A).

[0010]

The 1mm diameter pin (H) is piercing through the pin holes (F) on both sides of the connected curved blade pieces (A). The two curved blade pieces (A) are able to repeat the opening and retracting circular movement with the pin (H) as the rotation center. The two circular blade pieces are assembled in a position facing one another. The pin (J) is piercing through the pin hole (G) on both sides of the connected curved blade pieces (A) and the pin hole on the support piece (K). The support piece (K) is attached to both sides of the curved blade piece (A) with the 1mm pin (J). The two support pieces (K) attached to the sides of the curved blade piece (A) is attached to the board spring (X). The two board springs (X) at 1mm thickness, with the support pieces (K) attached, are connected and secured to the curved blade pieces (A) from the top and bottom. The operating levers (Y) are attached to the exterior (upper) surface of the board spring (X). The two board springs (X) and the operating levers (Y) are attached with the 1mm thick and 2mm wide ring (Z). The attachment is made so the pressing of the operating levers (Y) results in the two board springs coming closer to one another. The edges of the blades (B) on the blade pieces (A) meet completely in a straight line to cut the pet's nail placed between the blades (B) on the blade pieces (A).

[00011]

[Effect of the invention]

It produces smooth nail edges in single cutting action.

[Simple description of the diagram]

[Diagram 1]

The blade piece of the nail clipper for pets. The elevation view is a cross section.

[Diagram 2]

Diagram of the two blade pieces (A) connected together. Cross section.

[Diagram 3]

The entire view of the nail clipper for pets.

[Diagram 4]

The detailed diagram of the blade piece portion of the nail clipper for pets. The side view is a cross section.

[Diagram marks]

(A) Blade piece
(B) Blade on the blade piece (A)
(C) Arm piece
(D) Arm piece
(E) Piece attached to the arm piece
(F) Pin hole
(G) Pin hole
(H) Pin
(J) Pin
(K) Support piece attached to the board spring (X)
(X) Board spring
(Y) Operating lever
(Z) Ring

[Document title] Diagram
[Diagram 1]

Top view

Cross section of the elevation view

[Diagram 2]

Cross section of the elevation view

[Diagram 3]

Side view

[Document title] Diagram
[Diagram 4]

Elevation view

Side view

[Document title] Summary

[Summary]

[Issue]

It produces smooth nail edges in single cutting action.

[Method used to solve the issue]

This is a nail clipper for pets with the following distinctive features. It has blade pieces created by splitting a circular or elliptical ring. It has blades on the circular rim of the blade pieces. The two circular blade pieces are assembled by facing one another. Pins are attached on the two circular blade pieces. The circular blade pieces repeats the opening and retracting movement in circular motion with the pin at the rotation center, cutting the pet's nail placed between the blades on the blade pieces as a result.

[Selected diagram] Diagram 4

【書類名】　優先権証明請求書

【提出日】　平成１５年１０月１０日

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【請求人】

　【識別番号】　５００２９３０７６

　【郵便番号】　３２８－００１１

　【住所又は居所】　栃木県栃木市大宮町２５８４番地

　【氏名又は名称】　葛生　裕子

　【携帯電話番号】　０９０－７９０７－８４８８

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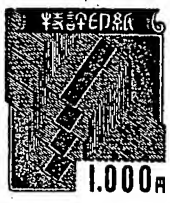
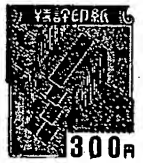
【交付方法】　郵送

（１，４００円）





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請求項の数	3
特許出願人	葛生　雅之

この出願については、拒絶の理由を発見しないから、特許査定する。

上記はファイルに記録されている事項と相違ないことを認証する。
認証日　平成15年 8月19日　経済産業事務官　高安　広明

注意：この書面を受け取った日から３０日以内に特許料の納付が必要です。

6/4 受付

【書類名】　手続補正書

【提出日】　平成１５年6月5日

【あて先】　特許庁長官　殿

特許庁審査官　吉田　佳代子　殿

【事件の表示】

【出願番号】　特願２００２－３８３７２０

【補正をする者】

【識別番号】　５００２９８２４４

【住所又は居所】　栃木県栃木市大宮町２５８,４番地

【氏名又は名称】　葛生　雅之

【発送番号】　１８２４４９

【手続補正１】

【補正対象書類名】　明細書

【補正対象項目名】　請求項１

【補正方法】　変更

【補正の内容】

【請求項１】犬猫等のペットの爪を切る爪切りで、楕円形の厚みの有る輪を二分割して刃体Ａを造り、楕円形の厚みの有る輪の刃体Ａの両端の切り口は楕円形の輪の面に対して斜めに切って、又は円形の厚みの有る輪を二分割して刃体Ａを造り、円形の厚みの有る輪の刃体Ａの両端の切り口は円形の輪の面に対して斜めに切って、厚みの有る輪を二分割した円弧の刃体Ａの片端付近の外側に腕部材Ｃを外側に向けて取り付け、腕部材Ｃは円弧の刃体Ａの輪の面に水平に取り付け、輪を二分割した円弧の刃体Ａのもう一方の片端付近の外側に腕部材Ｄを外側に向けて取り付け、腕部材Ｄは円弧の刃体Ａの輪の面に水平に取り付け、厚みの有る輪を斜めに切った円弧の刃体Ａにおいて円弧の長い方に腕部材Ｃと腕部材Ｄを取り付けて、厚みの有る輪を斜めに切った円弧の刃体Ａにおいて円弧の短い方の縁を刃Ｂに加工し、腕部材Ｃにピン穴Ｆの開いた部材Ｅを取り付け、及びもう一方の腕部材Ｄにピン穴Ｆの開いた部材Ｅを取り付け、腕部材Ｃに取り付けた部材Ｅのピン穴Ｆの向きは、円弧の刃体Ａの輪の面に向けて刃体Ａの輪の面に平行に取

り付け、及びもう一方の腕部材Ｄに取り付けた部材Ｅのピン穴Ｆの向きは、円弧の刃体Ａの輪の面に向けて刃体Ａの輪の面に平行に取り付け、円弧の刃体Ａの中央に刃体Ａの輪の面に平行にピン穴Ｇを開け、２個の円弧の刃体Ａが輪の面に対して斜めに切った切り口を合わせて組み合わされ、腕部材Ｃの長さと腕部材Ｄの長さを調節して２個の円弧の刃体Ａを組み合わせ、組み合わせた切り口は２個の刃体Ａのピン穴Ｇを結んだ直線より上にあり、２個の円弧の刃体Ａを組み合わせた両側の部材Ｅのピン穴Ｆにピンｈを通し、２個の円弧の刃体Ａがピンｈを中心に円運動である開閉運動の往復運動ができるようにし、２個の円弧の刃体Ａが刃先を向き合わせて組み合わされ、２個の円弧の刃体Ａを組み合わせた両側の円弧の刃体Ａのピン穴Ｇにピンｊを通し、支持部材Ｋにピン穴を開けピンｊを通し、支持部材Ｋは円弧の刃体Ａの両側にピンｊを用いて取り付け、上下の円弧の刃体Ａの両側に取り付けた２個の支持部材Ｋを板バネＸに取り付け、上下で２個の板バネＸが支持部材Ｋを取り付けた反対側で接続して固定し、板バネＸの外側に押圧操作レバーＹを取り付け、上下で２個の板バネＸと押圧操作レバーＹは輪Ｚを廻らせて取り付け、押圧操作レバーＹを押して下げることで、上下で２個の板バネＸは近づくように押圧操作レバーＹを加工して取り付け、押圧操作レバーＹを押して下げることで、上下の刃体Ａの刃Ｂの先が全線で完全に接触し、上下の刃体Ａの刃Ｂの間にあるペットの爪を切ることができる、以上のことを特徴とするペット用爪切り。

【手続補正２】

【補正対象書類名】　明細書

【補正対象項目名】　０００２

【補正方法】　変更

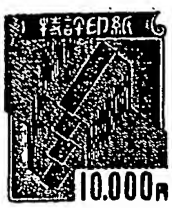
【補正の内容】

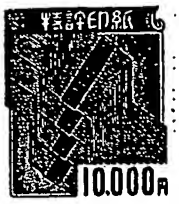
【０００２】

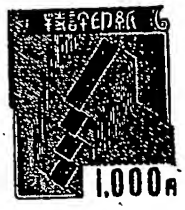
【従来の技術】

ペット用の爪切りで爪を切ると、爪の回りが角張って切れ、爪が引っ掛かる。先行技術文献としては、特開昭５６－７５０３８号公報や実開平４－６８６６２号公報がある。

特願2002-383720
1/6受付







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【請求項の数】　３

【発明者】

　【住所又は居所】　栃木県栃木市大宮町２５８４番地

　【氏名】　葛生　雅之

【特許出願人】

　【識別番号】　５００２９８２４４

　【郵便番号】　３２８－００１１

　【住所又は居所】　栃木県栃木市大宮町２５８４番地

　【氏名又は名称】　葛生　雅之

【提出物件の目録】

　【物件名】　明細書　1

　【物件名】　図面　1

　【物件名】　要約書　1

【書類名】　明細書

【発明の名称】　ペット用爪切り

【特許請求の範囲】

【請求項１】犬猫等のペットの爪を切る爪切りで、楕円形の厚みの有る輪を二分割して刃体Ａを造り、楕円形の厚みの有る輪の刃体Ａの両端の切り口は楕円形の輪の面に対して斜めに切って、又は円形の厚みの有る輪を二分割して刃体Ａを造り、円形の厚みの有る輪の刃体Ａの両端の切り口は円形の輪の面に対して斜めに切って、厚みの有る輪を二分割した円弧の刃体Ａの片端付近の外側に腕部材Ｃを外側に向けて取り付け、腕部材Ｃは円弧の刃体Ａの輪の面に水平に取り付け、輪を二分割した円弧の刃体Ａのもう一方の片端付近の外側に腕部材Ｄを外側に向けて取り付け、腕部材Ｄは円弧の刃体Ａの輪の面に水平に取り付け、厚みの有る輪を斜めに切った円弧の刃体Ａにおいて円弧の長い方に腕部材Ｃと腕部材Ｄを取り付けて、厚みの有る輪を斜めに切った円弧の刃体Ａにおいて円弧の短い方の縁を刃Ｂに加工し、(刃体Ａに刃Ｂを取り付け)、腕部材Ｃにピン穴Ｆの開いた部材Ｅを取り付け、及びもう一方の腕部材Ｄにピン穴Ｆの開いた部材Ｅを取り付け、腕部材Ｃに取り付けた部材Ｅのピン穴Ｆの向きは、円弧の刃体Ａの輪の面に向けて刃体Ａの輪の面に平行に取り付け、及びもう一方の腕部材Ｄに取り付けた部材Ｅのピン穴Ｆの向きは、円弧の刃体Ａの輪の面に向けて刃体Ａの輪の面に平行に取り付け、円弧の刃体Ａの中央に刃体Ａの輪の面に平行にピン穴Ｇを開け、２個の円弧の刃体Ａが輪の面に対して斜めに切った切り口を合わせて組み合わされ、腕部材Ｃの長さと腕部材Ｄの長さを調節して２個の円弧の刃体Ａを組み合わせ、組み合わせた切り口は２個の刃体Ａのピン穴Ｇを結んだ直線より上にあり、２個の円弧の刃体Ａを組み合わせた両側の部材Ｅのピン穴ＦにピンＨを通し、２個の円弧の刃体ＡがピンＨを中心に円運動である開閉運動の往復運動ができるようにし、２個の円弧の刃体Ａが刃先を向き合わせて組み合わされ、２個の円弧の刃体Ａを組み合わせた両側の円弧の刃体Ａのピン穴ＧにピンＪを通し、支持部材Ｋにピン穴を開けピンＪを通し、支持部材Ｋは円弧の刃体Ａの両側にピンＪを用いて取り付け、上下の円弧の刃体Ａの両側に取り付けた２個の支持部材Ｋを板バネＸに取り付け、上下で２個の板バネＸが支持部材Ｋを取り付けた反対側で接続して固定

し、板バネＸの外側に押圧操作レバーＹを取り付け、上下で２個の板バネＸと押圧操作レバーＹは輪Ｚを廻らせて取り付け、押圧操作レバーＹを押して下げることで、上下で２個の板バネＸは近づくように押圧操作レバーＹを加工して取り付け、押圧操作レバーＹを押して下げることで、上下の刃体Ａの刃Ｂの先が全線で完全に接触し、上下の刃体Ａの刃Ｂの間にあるペットの爪を切ることができる、以上のことを特徴とするペット用爪切り。

【請求項２】犬猫等のペットの爪を切る爪切りで、楕円形の輪を二分割して刃体Ａを造り、又は円形の輪を二分割して刃体Ａを造り、円弧の刃体Ａに腕部材Ｃ，Ｄを取り付け、円弧の刃体Ａの縁を刃Ｂに加工し、腕部材Ｃ，Ｄにピン穴Ｆの開いた部材Ｅを取り付け、２個の円弧の刃体Ａが刃先を向き合わせて組み合わされ、２個の円弧の刃体Ａを組み合わせた両側の部材Ｅのピン穴ＦにピンＨを通し、２個の円弧の刃体ＡがピンＨを中心に円運動である開閉運動の往復運動ができるようにし、上下の刃体Ａの刃Ｂの間にあるペットの爪を切ることができる、以上のことを特徴とするペット用爪切り。

【請求項３】犬猫等のペットの爪を切る爪切りで、楕円形の輪を二分割して刃体Ａを造り、又は円形の輪を二分割して刃体Ａを造り、円弧の刃体Ａの縁を刃Ｂに加工し、２個の円弧の刃体Ａが刃先を向き合わせて組み合わされ、２個の円弧の刃体ＡにピンＨを取り付け、２個の円弧の刃体ＡがピンＨを中心に円運動である開閉運動の往復運動ができるようにし、上下の刃体Ａの刃Ｂの間にあるペットの爪を切ることができる、以上のことを特徴とするペット用爪切り。

【発明の詳細な説明】

【０００１】

【発明の属する技術分野】

犬猫等のペットの爪切りの技術。

【０００２】

【従来の技術】

ペット用の爪切りで爪を切ると、爪の回りが角張って切れ、爪が引っ掛かる。

【０００３】

【発明が解決しようとする課題】

一回の爪切りで、爪先の回りを丸く滑らかに切れるようにする。

【０００４】

【課題を解決するための手段】

犬猫等のペットの爪を切る爪切りで、楕円形の輪を二分割して刃体を造り、又は円形の輪を二分割して刃体を造り、円弧の刃体の縁を刃に加工し、２個の円弧の刃体が刃先を向き合わせて組み合わされ、２個の円弧の刃体にピンを取り付け、２個の円弧の刃体がピンを中心に円運動である開閉運動の往復運動ができるようにし、上下の刃体の刃の間にあるペットの爪を切ることができる、以上のことを特徴とするペット用爪切り。

【０００５】

【発明の実施の形態】

発明の実施の形態を実施例にもとづき図面を参照にして説明する。

図１において、楕円形の厚みの有る輪を二分割して刃体Ａを造り、楕円形の厚みの有る輪の刃体Ａの両端の切り口は楕円形の輪の面に対して斜めに切って、又は円形の厚みの有る輪を二分割して刃体Ａを造り、円形の厚みの有る輪の刃体Ａの両端の切り口は円形の輪の面に対して斜めに切って、厚みの有る輪を二分割した円弧の刃体Ａの片端付近の外側に腕部材Ｃを外側に向けて取り付け、腕部材Ｃは円弧の刃体Ａの輪の面に水平に取り付け、輪を二分割した円弧の刃体Ａのもう一方の片端付近の外側に腕部材Ｄを外側に向けて取り付け、腕部材Ｄは円弧の刃体Ａの輪の面に水平に取り付け、厚みの有る輪を斜めに切った円弧の刃体Ａにおいて円弧の長い方（上側）に腕部材Ｃと腕部材Ｄを取り付けて、厚みの有る輪を斜めに切った円弧の刃体Ａにおいて円弧の短い方（下側）の縁を刃Ｂに加工し、刃体Ａに刃Ｂを取り付け、腕部材Ｃにピン穴Ｆの開いた部材Ｅを取り付け、及びもう一方の腕部材Ｄにピン穴Ｆの開いた部材Ｅを取り付け、腕部材Ｃに取り付けた部材Ｅのピン穴Ｆの向きは、円弧の刃体Ａの輪の面に向けて刃体Ａの輪の面に平行に取り付け、及びもう一方の腕部材Ｄに取り付けた部材Ｅのピン穴Ｆの向きは、円弧の刃体Ａの輪の面に向けて刃体Ａの輪の面に平行に取り付け、腕部材Ｃは腕部材Ｄより長くし、円弧の刃体Ａの中央に刃体Ａの輪の面に平行にピン穴Ｇを開けた。

【０００６】

図２において、２個の円弧の刃体Ａが輪の面に対して斜めに切った切り口を合わせて組み合わされ、腕部材Ｃの長さと腕部材Ｄの長さを調節して２個の円弧の刃体Ａを組み合わせ、組み合わせた全ての切り口は２個の刃体Ａのピン穴Ｇを結んだ直線より上にあるようにする。

【０００７】

図３，図４において、２個の円弧の刃体Ａを組み合わせた両側の部材Ｅのピン穴Ｆにピンｈを通し、２個の円弧の刃体Ａがピンｈを中心に円運動である開閉運動の往復運動ができるようにし、２個の円弧の刃体Ａが刃先を向き合わせて組み合わされ、２個の円弧の刃体Ａを組み合わせた両側の円弧の刃体Ａのピン穴Ｇにピンｊを通し、支持部材Ｋにピン穴を開けピンｊを通し、支持部材Ｋは円弧の刃体Ａの両側にピンｊを用いて取り付け、上下の円弧の刃体Ａの両側に取り付けた２個の支持部材Ｋを板バネＸに取り付け、上下で２個の板バネＸは支持部材Ｋを取り付けた反対側で接続して固定し、板バネＸの外側（上側）に押圧操作レバーＹを取り付け、上下で２個の板バネＸと押圧操作レバーＹは輪Ｚを廻らせて取り付け、押圧操作レバーＹを押して下げることで、上下で２個の板バネＸは近づくように、押圧操作レバーＹは梃子を使えるように加工して取り付け、押圧操作レバーＹを押して下げることで、上下の刃体Ａの刃Ｂの先が全線で完全に接触し、上下の刃体Ａの刃Ｂの間にあるペットの爪を切ることができるペット用爪切りである。

【０００８】

【実施例】

発明の実施例を図面を参照にして説明する。

犬猫等のペットの爪を切る爪切りで、全ての部材は金属で造り、図１において、長軸２０㎜で短軸１２㎜で厚み４㎜の楕円形の輪を二分割して刃体Ａを造り、楕円形の厚みの有る輪の刃体Ａの両端の切り口は楕円形の輪の面に対して７５度の斜めに切って、輪を二分割した円弧の刃体Ａの片端付近の外側に長さ４㎜で厚さ１㎜の腕部材Ｃを外側に向けて取り付け、腕部材Ｃは円弧の刃体Ａの輪の面に水平に取り付け、輪を二分割した円弧の刃体Ａのもう一方の片端付近の外側に長さ

3㎜で厚さ1㎜の腕部材Dを外側に向けて取り付け、腕部材Dは円弧の刃体Aの輪の面に水平に取り付け、厚みの有る輪を斜めに切った円弧の刃体Aにおいて円弧の長い方（上側）に腕部材Cと腕部材Dを取り付けて、厚みの有る輪を斜めに切った円弧の刃体Aにおいて円弧の短い方（下側）の縁を刃Bに加工し、刃体Aに刃Bを取り付け、腕部材Cに直径1㎜のピン穴Fの開いた厚さ1㎜の部材Eを取り付け、及びもう一方の腕部材Dに直径1㎜のピン穴Fの開いた厚さ1㎜の部材Eを取り付け、腕部材Cに取り付けた部材Eのピン穴Fの向きは、円弧の刃体Aの輪の面に向けて刃体Aの輪の面に平行に取り付け、及びもう一方の腕部材Dに取り付けた部材Eのピン穴Fの向きは、円弧の刃体Aの輪の面に向けて刃体Aの輪の面に平行に取り付け、円弧の刃体Aの中央に刃体Aの輪の面に平行に直径1㎜のピン穴Gを開けた。

【0009】

図2において、2個の円弧の刃体Aが輪の面に対して75度の斜めに切った切り口を合わせて組み合わされ、組み合わせた切り口は2個の刃体Aのピン穴Gを結んだ直線より1㎜上にあるようにする。

【0010】

図3，図4において、2個の円弧の刃体Aを組み合わせた両側の部材Eのピン穴Fに直径1㎜のピンHを通し、2個の円弧の刃体Aがピンを中心に円運動である開閉運動の往復運動ができるようにし、2個の円弧の刃体が刃先を向き合わせて組み合わされ、2個の円弧の刃体Aを組み合わせた両側の円弧の刃体Aのピン穴Gに直径1㎜のピンJを通し、支持部材Kに直径1㎜のピン穴を開けピンJを通し、支持部材Kは円弧の刃体Aの両側にピンJを用いて取り付け、上下の円弧の刃体Aの両側に取り付けた2個の支持部材Kを厚さ1㎜の板バネXに取り付け、上下で2個の板バネXは支持部材Kを取り付けた反対側で接続して固定し、板バネXの外側（上側）に押圧操作レバーYを取り付け、上下で2個の板バネXと押圧操作レバーYは厚さ1㎜で幅2㎜の帯状の輪Zを一回り巻いて取り付け、押圧操作レバーYを押して下げることで、上下で2個の板バネXは近づくように、押圧操作レバーYは梃子を使えるように加工して取り付け、押圧操作レバーYを押して下げることで、上下の刃体Aの刃Bの先が全線で完全に接触し、上下の刃

体Aの刃Bの間にあるペットの爪を切ることができるペット用爪切りである。

【００１１】

【発明の効果】

一回の爪切りで、爪の回りを丸く滑らかに切れ、爪先が丸くなる。

【図面の簡単な説明】

【図１】

ペット用爪切りの刃体。立面図は断面図。

【図２】

２個の刃体Aを組み合わせた図。断面図。

【図３】

ペット用爪切りの全体図。

【図４】

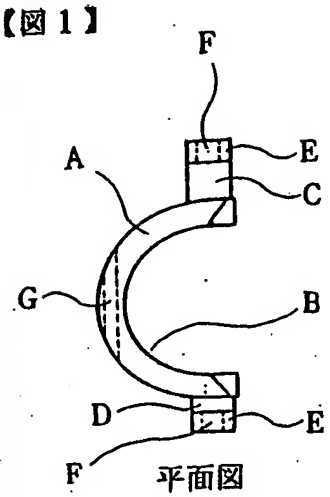
ペット用爪切りの刃部組立の詳細図。側面図は断面図。

【符号の説明】

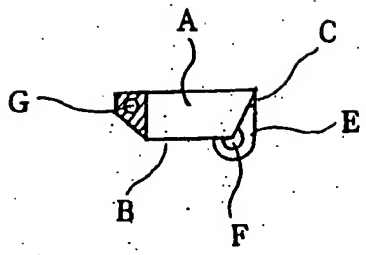
A：刃体、　B：刃体Aの刃、　C：腕部材、　D：腕部材、　E：腕部材に取り付けた部材、　F：ピン穴、　G：ピン穴、　H：ピン、　J：ピン、　K：板バネXに取り付けた支持部材、　X：板バネ、　Y：押圧操作レバー、　Z：輪、

【書類名】　図面

【図１】

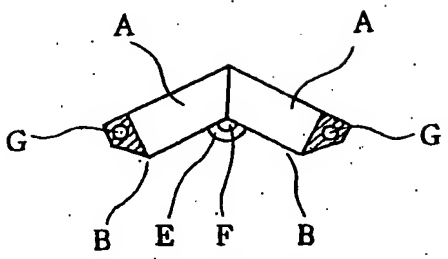


平面図



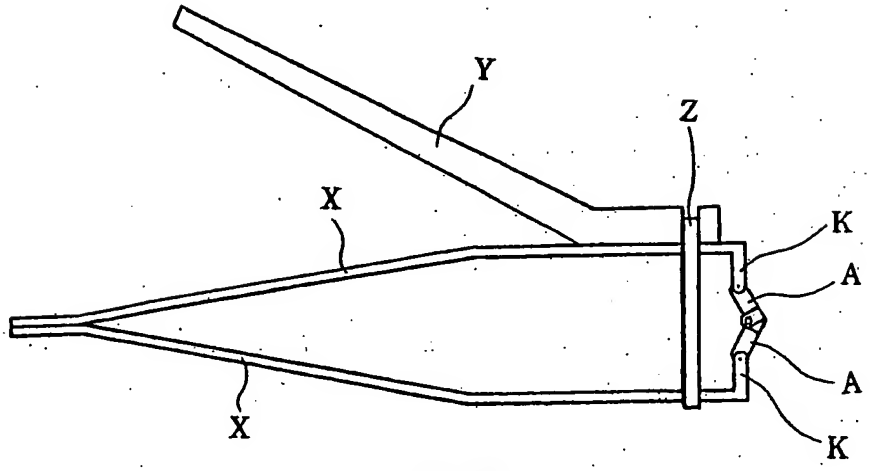
立面図断面図

【図２】



立面図断面図

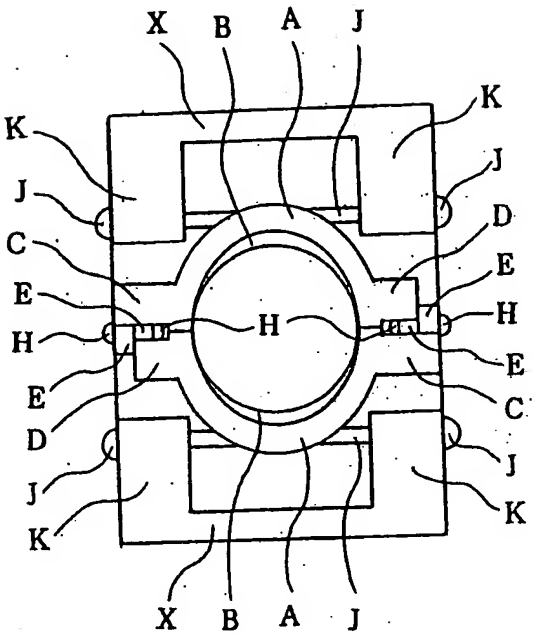
【図３】



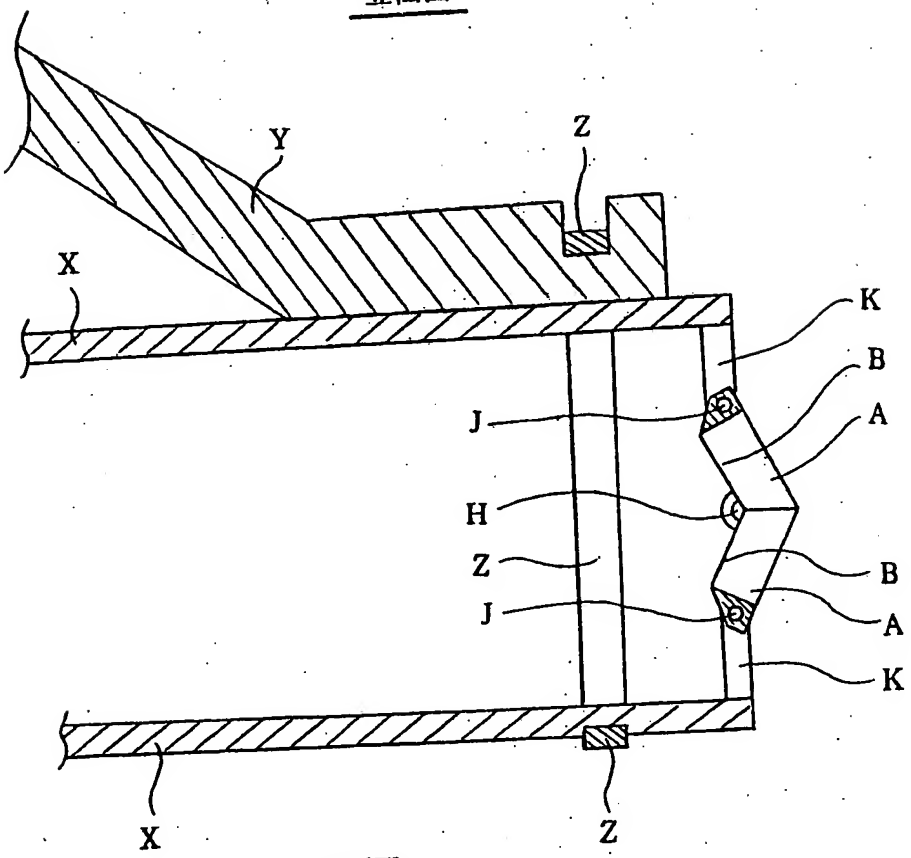
側面図

【書類名】　図面

【図４】



立面図



側面図

【書類名】　要約書

【要約】

【課題】　一回の爪切りで、爪先の回りを丸く滑らかに切れるようにする。

【解決の手段】犬猫等のペットの爪を切る爪切りで、楕円形の輪を二分割して刃体を造り、又は円形の輪を二分割して刃体を造り、円弧の刃体の縁を刃に加工し2個の円弧の刃体が刃先を向き合わせて組み合わされ、2個の円弧の刃体にピンを取り付け、2個の円弧の刃体がピンを中心に円運動である開閉運動の往復運動ができるようにし、上下の刃体の刃の間にあるペットの爪を切ることができる、以上のことを特徴とするペット用爪切り。

【選択図】　図4